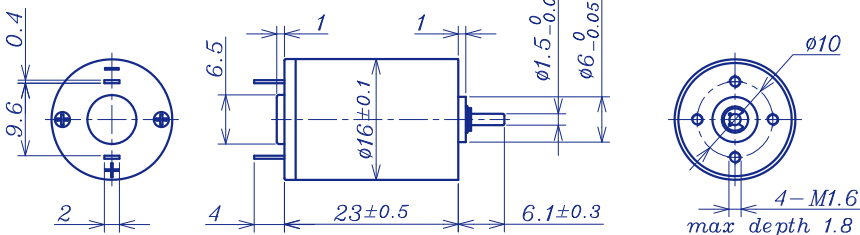
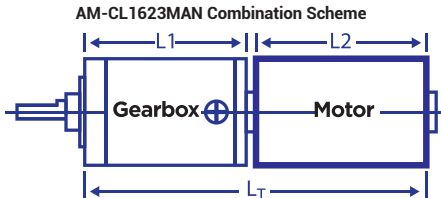


AM-CL1623MAN SERIES

 									
			Precious metal brush		Ball Bearings				
Motor Model			0109	0108	0310	0308	0610	0608	1212
Nominal voltage	V		1.5	1.5	3	3	6	6	12
No load speed ±12%	rpm		9100	7850	10130	7690	9875	7574	12440
No load current Max 150%	mA		60	55	35	23	22	18	14
Recommend limit for continuous operating	Max cont. torque	mN.m	1.2	1.3	1.9	2.1	2.2	2.1	2.1
	Rated Speed	rpm	7596	6106	7674	5142	7202	4861	9839
	Rated Current	mA	850	800	700	600	400	300	250
	Rated Power	W	1.0	0.9	1.5	1.1	1.6	1.1	2.2
Starting current	mA		4839	3409	2778	1765	1418	805	1143
Stall torque	mN.m		7	6	8	6	8	6	10
Maximum power output	W		1.8	1.2	2.0	1.3	2.1	1.2	3.3
Maximum Efficiency	%		79	76	79	78	77	72	79
Terminal resistance ±12%	Ω		0.31	0.44	1.08	1.7	4.23	7.45	10.5
Inductance (1KHz)	mH		0.001	0.006	0.038	0.058	0.15	0.27	0.41
Mechanical time constant	ms		17.6	18.7	19.0	17.2	16.9	17.7	16.9
Moment of inertia	gcm ²		1.37	1.37	1.37	1.37	1.3	1.3	1.33
Torque constant	mN.m/A		1.6	1.8	2.8	3.7	5.7	7.4	9.1
Speed constant	rpm/V		6143	5319	3420	2597	1672	1291	1050
Speed/torque gradient	rpm/mN.m		1225	1304	1323	1201	1238	1301	1211
Weight	g		18.6	18.6	18.6	18.4	18.4	18.4	18.5
ADDITIONAL INFORMATION									
Motor thermal resistance:			41.7K/W		Motor thermal time constant:			379S	
Axial (dynamic):			0.8 N		Radial (5mm from mounting face):			12 N	
Press-fit force (static):			26 N		Max allowable screw depth into flange:			1.8 mm	
Maximum radial play (5mm from mounting face):			≤0.02 mm		Axial play:			Preset	
Maximum winding temperature:			85°C		Ambient temperature range:			-30 to 65°C	
Standard rear shaft diameter:			2 mm		Standard rear shaft length "L":			0/3.7 mm	
Total Length (Gearbox and Motor): L=L1+L2+L3									
L1:16GP	L1:19GP		L2:CL16						
15.9	18.8		22.50						
23.3	23.6								
27.0	28.4								
									
					Recommended Gearbox: Planetary Gearbox: AM-16GP AM-19GP				
Remarks: Client can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.									
Motor data tested at 25°C. Motor operation exceeding continuous limits will reduce life or result in damage. At elevated ambient temperatures, load current must be reduced.									

Download datasheet: <https://assunmotor.com/documents-download>